WHAT IS CLAIMED IS:

A system for providing data content to a plurality of mobile platforms via at 1. least one satellite having at least one radio frequency (RF) transponder, and for transmitting data content from said mobile platforms via said RF transponder to a groundbased control center, comprising:

an independent mobile system associated with each said mobile platform and carried by each said mobile platform;

a ground-based antenna system associated with said ground-based control center for transmitting encoded RF signals representative of said data content via said RF transponder to said mobile system;

each said mobile system comprising:

a steerable transmit antenna and a steerable receive antenna;

a communications subsystem in communication with each of said antennas for generating baseband video signals and data signals from said encoded RF signals received by said receive antenna, and for producing encoded signals from data transmissions input by each of a plurality of occupants;

a data content management system for filtering of portions of said data content not addressed to occupants on said mobile platform;

a network for distributing said baseband video signals and

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said data signals output from said data content management system

to said occupants, said network including a plurality of access

stations whereby individual occupants receive only specific

subportions of said baseband video signals and said data signals

relating to previous information selections made by said occupants;

and

said independent mobile system also operating to transmit

said signals input by each of said occupants from each of said

access stations, via said RF transponder, to said ground-based

antenna system.

2. The system of claim 1, wherein said access stations are adapted to be

coupled to personal computing devices operated by each of said occupants.

3. The system of claim 1, wherein said data content management system

comprises a file server.

4. The system of claim 1, wherein said satellite comprises a plurality of RF

transponders, and wherein said ground based control center designates one of said

transponders to communicate in dedicated fashion with a designated one of said mobile

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platforms.

5. The system of claim 1, wherein said network comprises a local area network.

6. A system for providing real time video signals to a mobile receiving platform via a satellite having at least one radio frequency (RF) transponder, the system comprising:

a ground based system for transmitting RF signals representative of said video signals to said satellite;

a mobile receiving system disposed on said mobile receiving platform comprising:

an antenna for receiving said RF signals from said RF transponder;

an antenna control system for use in steering said antenna to track said satellite as said mobile receiving platform is in motion;

a communications system responsive to signals received by said antenna for generating baseband video signals in accordance therewith;

a data content management system responsive to said communications system for determining which portions of said baseband video signals are to be transmitted to each of a plurality of access stations on said mobile receiving platform for viewing by individuals on said mobile receiving platform; and

a distribution system for routing said portions of said baseband video signals to specific ones of said access stations in

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response to requests by said occupants, such that each said occupant receives only a portion of said baseband video signals in accordance with said request made by each said occupant.

The system of claim 6, wherein said communications system comprises a 7. plurality of integrated receiver/decoders for decoding, demodulating and digital-to-analog converting received RF signals into said baseband video signals.

- The system of claim 6, wherein said data content management system 8. comprises a server.
- The system of claim 6, wherein said baseband video signals represent live 9. television signals.
- The system of claim 6, wherein said baseband video signals represent 10. direct broadcast television signals.

11. The system of claim 6, wherein said ground based system comprises a network operations center for managing accounting and billing operations associated with access to the system by each user.

12. The system of claim 6, wherein said ground segment operates to transmit encoded data signals to said transponder of said satellite; and

wherein said communications system operates to de-modulate and D/A convert said RF signals to produce said baseband data signals.

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A system for supplying a plurality of channels of data content to a plurality 13. of independent mobile receiving platforms, wherein each said mobile receiving platform has a plurality of occupants, and for receiving data content transmitted from said mobile receiving platform by said occupants, said system comprising:

a ground based antenna for transmitting encoded radio frequency (RF) signals representing said data content;

at least one satellite having a plurality of RF transponders in orbit over a desired geographical coverage area within which said mobile platforms are traveling, for transponding said encoded RF signals;

a mobile receiving system disposed on each said mobile receiving platform, each said mobile system comprising:

an antenna system including a receive antenna for receiving said encoded RF signals from a designated one of said RF transponders, and a transmit antenna for transmitting said data content to a designated one of said RF transponders;

an antenna control system for steering said transmit and receive antennas to track said satellite as said mobile receiving platform is in motion;

a communications system responsive to said encoded RF signals received by said receive antenna for demodulating and decoding said encoded RF signals to produce baseband video signals and data signals;

said communications system including a system for transmitting data content from each of said occupants, via said transmit antenna, to said designated one of said transponders;

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a data content management system responsive to said communications system for determining which portions of said baseband video signals and which portions of said data signals are to be transmitted to specific ones of a plurality of access stations on said mobile receiving platform for use by said occupants of said mobile receiving platform; and

a network system for routing said portions of said baseband video signals and said data signals to specific ones of said access stations in response to requests by said occupants, such that each said occupant receives only a requested portion of said baseband video signals or a requested portion of said data signals.

- 14. The system of claim 13, wherein said communications system comprises a plurality of integrated receiver/decoders.
- 15. The system of claim 13, wherein said data content management system comprises a server.

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16. The system of claim 13, further comprising a data system for supplying

crew information services to said data content management system.

17. The system of claim 13, further comprising an air telephone system on

board said mobile platform for transmitting data services to at least one ground based

voice telephony receiving station within said coverage area.

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18. A system for enabling individual occupants on board a moving platform to transmit and receive data content in real time from a ground based data source, said system comprising:

a ground based system for transmitting radio frequency (RF) signals representative of said data content obtained from a data content source;

a satellite system having at least one RF transponder for transponding RF signals received from said ground based system to said mobile platform, and transponding RF signals received from said moving platform to said ground based system;

a mobile communications system disposed on said mobile platform including:

a receive antenna for receiving RF signals from said RF transponder;

a transmit antenna for transmitting RF signals to said RF transponder;

a communications subsystem in communication with said receive antenna and said transmit antenna for converting said received RF signals into data content, and for converting user data transmitted by said occupants into RF signals to be transmitted by said transmit antenna to said RF transponder; and

a data content management system for receiving said data

content from said communications subsystem and determining which

subportions of said data content is to be distributed to specific ones

of said occupants; and

a distribution system for distributing said subportions of said

data content to said occupants such that each said occupant

receives only specific ones of said subportions of said data content

in accordance with previous information transmissions made by each

said occupant.

19. The system of claim 18, wherein said distribution system comprises a local

area network (LAN).

20. The system of claim 18, wherein said distribution system further comprises

a plurality of independent access stations capable of interfacing with an electronic device

of an occupant of said mobile platform.

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21. A system for facilitating bi-directional communication between a ground-based control center and a plurality of mobile platforms, of data content via a satellite having a plurality of (RF) transponders, said system comprising:

a ground based antenna for transmitting encoded RF signals from said groundbased control center representing said data content;

a mobile receiving system disposed on each said mobile platform, each said mobile receiving system comprising:

a steerable receive antenna for receiving said encoded RF signals from a designated one of said RF transponders of said satellite;

an antenna control system for steering said receive and transmit antennas to track said satellite as said mobile receiving platform is in motion;

a communications system responsive to said encoded RF signals received by said receive antenna for generating output signals representative of live television programming and Internet data;

a server responsive to said communications system for filtering off portions of said live television programming and portions of said Internet data representing data content which have not been requested by any of said occupants of its associated said mobile

platform, and filtering off portions of said data content not directed to any occupant of said mobile platform; and

a network system for routing said portions of said output signals and said portions of said Internet data to specific ones of a plurality of access stations in accordance with inputs made at said access stations by each of said occupants.

22. The system of claim 21, wherein said steerable receive antenna comprises an electronically steerable, phased array antenna.

23. A method of transmitting data content between a mobile receiving platform and a ground-based control segment, comprising the steps of:

using a ground-based antenna associated with said ground-based control segment to transmit encoded radio frequency (RF) signals corresponding to said data content;

using a satellite having a plurality of transponders to receive said encoded RF signals and to transpond said encoded RF signals, via one of said transponders designated by said ground-based control segment, to said mobile receiving platform;

using a steerable antenna carried by said mobile receiving platform to receive said encoded RF signals;

causing said steerable antenna to track said satellite as said mobile receiving platform is in motion to thereby maintain constant radio frequency contact with said satellite;

decoding and demodulating said encoded RF signals to produce a plurality of data signals representative of said data content;

filtering off said data signals that have not been requested by any occupant of said mobile platform to produce a limited subset of data content;

distributing selected portions of said subset of data content to access stations associated with said occupants in accordance with requests of each said occupant such that each said occupant receives only selected portions of said subset of data content

corresponding to his/her previously submitted requests; and

transmitting encoded RF signals representative of information requests from said users to said satellite.